

1. Overview

Report Production:	03-Jan-2023	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

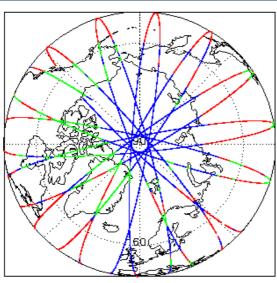
We would love to hear from you!

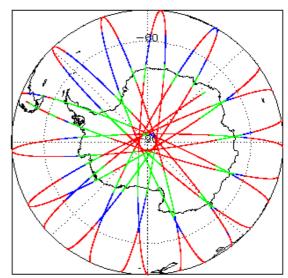
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

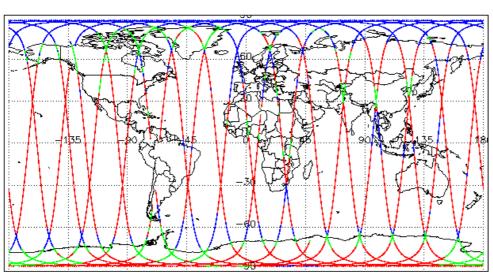
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1, 7.2

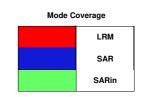
Mission / Instru	Mission / Instrument News	
28-Dec-2022	None	
29-Dec-2022	None	
30-Dec-2022	Nothing planned	

2. Global Coverage









3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

(

4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

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4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

> Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. The attitude correction is actually not missing. This will be resolved in the next SW undate.

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221229T012254_20221229T012825_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20221229T062033_20221229T063258_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected. The table provides the full list of products flagged.

Number of products with errors:

20

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221229T074245_20221229T075618_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221229T141835_20221229T145153_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221229T152828_20221229T153326_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T055453_20221229T055920_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T073624_20221229T073823_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T091314_20221229T091805_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T095601_20221229T095751_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T114428_20221229T114715_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T135352_20221229T135511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T135513_20221229T135548_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T140604_20221229T140633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T190241_20221229T190525_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T195809_20221229T200413_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T203948_20221229T204409_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221229T235347_20221229T235925_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221229T023548_20221229T023713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221229T045227_20221229T045909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221229T074128_20221229T074245_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221229T153536_20221229T153837_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221229T153837_20221229T154544_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221229T193230_20221229T193435_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221229T200636_20221229T200911_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).

Number of products with errors:

0

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Took Failed	Description
Product	Test Failed	Description There is an arrawith the Man Dynamic Tenegraphy height (solution 1)
CS_OFFL_SIR_IOPM_2_20221229T010618_20221229T010704_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T013911_20221229T014024_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T014803_20221229T014918_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T031824_20221229T031948_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T032457_20221229T032805_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20221229T045910_20221229T050156_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T050401_20221229T050927_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T055453_20221229T055920_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T063836_20221229T064112_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T073354_20221229T073505_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T081019_20221229T081215_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20221229T081555_20221229T081924_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T091314_20221229T091805_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T095601_20221229T095751_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T100607_20221229T100828_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T105315_20221229T105740_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T131536_20221229T131913_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T132449_20221229T132604_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T145458_20221229T145817_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T154544_20221229T154655_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T172458_20221229T172610_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T181938_20221229T182127_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T195809_20221229T200413_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T203948_20221229T204409_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20221229T212845_20221229T213122_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T213746_20221229T214055_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T221844_20221229T222232_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T231833_20221229T231950_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_IOPR_2_20221229T005006_20221229T005744_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T010704_20221229T010738_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221229T010750_20221229T010852_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221229T022800_20221229T023548_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T023548_20221229T023713_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T040747_20221229T041448_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T041448_20221229T041908_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T054923_20221229T055341_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T055341_20221229T055453_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T072721_20221229T073202_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T073202_20221229T073354_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T074128_20221229T074245_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	#N/A
CS_OFFL_SIR_IOPR_2_20221229T084558_20221229T084726_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221229T090701_20221229T091314_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T104839_20221229T105315_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T122558_20221229T123520_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T140633_20221229T141421_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T154655_20221229T155427_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T172610_20221229T173333_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T190526_20221229T191240_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T204409_20221229T205013_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20221229T205014_20221229T205119_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221229T222232_20221229T223114_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221229T012254_20221229T012825_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20221229T062033_20221229T063258_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.
- > OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221229T000024_20221229T000528_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T000535_20221229T000902_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T001327_20221229T004635_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T010901_20221229T011920_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T013214_20221229T013617_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T014024_20221229T014601_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T015243_20221229T022533_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T023858_20221229T024000_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T025833_20221229T031459_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T031948_20221229T032457_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T033118_20221229T040516_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T043450_20221229T045227_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T051112_20221229T052652_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T052814_20221229T053225_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T053259_20221229T054140_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T055959_20221229T061810_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T061917_20221229T062031_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T062033_20221229T063258_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T064112_20221229T064311_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T064425_20221229T064813_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T065011_20221229T070531_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T070732_20221229T070957_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T071000_20221229T071655_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20221229T073505_20221229T073624_C001	Backscatter Quality	for one or more records
CS_OFFL_SIR_IOPM_2_20221229T073918_20221229T074128_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T074245_20221229T075618_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T081428_20221229T081528_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T081924_20221229T082715_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T082956_20221229T084437_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T092237_20221229T095446_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T095751_20221229T100003_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T100021_20221229T100607_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T100937_20221229T103412_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T110536_20221229T113255_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T113715_20221229T113827_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T114002_20221229T114428_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T114817_20221229T121428_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T122404_20221229T122557_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T123957_20221229T131206_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T131913_20221229T132449_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T132755_20221229T133233_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T133618_20221229T134148_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T134306_20221229T135011_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T140345_20221229T140547_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T141835_20221229T145153_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T145817_20221229T150329_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T150807_20221229T152513_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T152828_20221229T153326_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T155646_20221229T161908_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

20. GPF1_8RIP_CPM1_2_0201297119384_0201297119394_001 20. GPF1_8RIP_CPM1_2_0201297119384_0201297119394_001 20. GPF1_8RIP_CPM1_2_0201297119384_020129717936_001 20. GPF1_8RIP_CPM1_2_0201297179384_020129717936_001 20. GPF1_8RIP_CPM1_2_0201297179384_00129717936_001 20. GPF1_8RIP_CPM1_2_0201297179364_00129717936_001 20. GPF1_8RIP_CPM1_2_0201297179364_00129717936_00	CS_OFFL_SIR_IOPM_2_20221229T161947_20221229T163034_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Concentration Concentratio	CS_OFFL_SIR_IOPM_2_20221229T163543_20221229T163818_C001	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
Sec. Col.	CS_OFFL_SIR_IOPM_2_20221229T163834_20221229T164234_C001		
SO GPTL SRI LOPM 2 20221229T17940 2022129T17950 CD01 All pasternative Range, SRIA, SWH and Reposition Coulty Plags have been after Range, SRIA, SWH and Reposition Coulty Plags have been after Range, SRIA, SWH and Reposition Coulty Plags have been after Range, SRIA, SWH and Reposition Coulty Plags have been after Range, SRIA, SWH and Reposition Coulty Plags have been after County Plags have been after Range, SRIA, SWH and Reposition County Plags have been after Range, SRIA, SWH and Reposition County Plags have been after County Plag	CS_OFFL_SIR_IOPM_2_20221229T164718_20221229T171326_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sci. CPFL_SRI_CPML_2_202212091174049_202212291174705_CO01 and Basecaster Cashly, OCDO Almenter Range, SSIA, SWI and Basecaster Cashly COCO Almenter Range, SSIA, SWI and Baseca	CS_OFFL_SIR_IOPM_2_20221229T171342_20221229T172056_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Baskecenter Quality, OCOCA Afficient Ringur and Biological Pounity Afficient Ringu	CS_OFFL_SIR_IOPM_2_20221229T173640_20221229T174755_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SS_OPFL_SR_JOPM_2_20221229116081_20221229118085_0001 SS_OPFL_SR_JOPM_2_20221229118081_20221229118085_0001 SS_OPFL_SR_JOPM_2_20221229118081_20221229118085_0001 SS_OPFL_SR_JOPM_2_20221229118081_20221229118085_0001 SS_OPFL_SR_JOPM_2_20221229118081_20221229118085_0001 SS_OPFL_SR_JOPM_2_20221229118081_20221229118085_0001 SS_OPFL_SR_JOPM_2_20221229118085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229118085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229118085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229118085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229118085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229119085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229119085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229119085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229119085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229119085_00021229118085_0001 SS_OPFL_SR_JOPM_2_20221229119085_00021229119085_0001 SS_OPFL_SR_JOPM_2_20221229119085_000221229119085_0001 SS_OPFL_SR_JOPM_2_20221229119085_000221229119085_0001 SS_OPFL_SR_JOPM_2_20221229119085_000221229119085_0001 SS_OPFL_SR_JOPM_2_20221229119085_000221229119085_0001 SS_OPFL_SR_JOPM_2_20221229119085_000221229119085_0001 SS_OPFL_SR_JOPM_2_20221229119085_000221229119085_0001 SS_OPFL_SR_JOPM_2_20221229119085_000221229119085_0001 SS_OPFL_SR_JOPM_2_20221229119085_00022122	CS_OFFL_SIR_IOPM_2_20221229T175236_20221229T175353_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Budocaster Outly, COCO Allmeter Range and Bascotater Outly Flags have been set for core or none records. S. OFFL SIR JOPM 2, 202212297181199, 20221229718177, COD1 S. OFFL SIR JOPM 2, 20221229718218 20221229718015, COCO Allmeter Range and Budocater Outly Flags have been set for one or none records. S. OFFL SIR JOPM 2, 20221229718218 20221229718015, COD1 S. OFFL SIR JOPM 2, 20221229718018, 20221229719015, COD1 S. OFFL SIR JOPM 2, 20221229718028, 20221229718059, COD1 S. OFFL SIR JOPM 2, 20221229718028, 20221229718059, COD1 S. OFFL SIR JOPM 2, 20221229718059, 20221229718059, 20221229718059, COD2 S. OFFL SIR JOPM 2, 20221229718059, 20221229718059, COD1 S. OFFL SIR JOPM 2, 20221229718059, 20221229718059, COD1 S. OFFL SIR JOPM 2, 20221229718059, 20221229718059, COD1 S. OFFL SIR JOPM 2, 20221229718059, 20221229719050, 20221229719050, COD2 S. OFFL SIR JOPM 2, 20221229719050, 20221229719050, COD2 S. OFFL SIR JOPM 2, 20221229719050, 20221229719050, COD3 S. OFFL SIR JOPM 2, 2022122	CS_OFFL_SIR_IOPM_2_20221229T175412_20221229T180551_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter County Cos. OFFL_SIR_IOPM_2_20221229T1826I4_20221229T194053_C001 Ocean Altimeter Range and Backscatter County Flags have been at force or more records. Ocean Altimeter Range SHA, SWH and Backscatter County Flags have been set for one or more records. Ocean Altimeter Range SHA, SWH and Backscatter County Flags have been set for one or more records. Ocean Altimeter Range SHA, SWH and Backscatter County Flags and Backscatter County F	CS_OFFL_SIR_IOPM_2_20221229T180621_20221229T180957_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Alterneter Range and Backscatter Quality Plags have been set to come or more records. S. OFFL_SIR_IOPM_2_20221229T194306_20221229T1940018_C001 S. OFFL_SIR_IOPM_2_20221229T19430_20221229T1940018_C001 S. OFFL_SIR_IOPM_2_20221229T19430_20221229T192654_C001 S. OFFL_SIR_IOPM_2_20221229T192659_20221229T192654_C001 S. OFFL_SIR_IOPM_2_20221229T192659_20221229T192654_C001 S. OFFL_SIR_IOPM_2_20221229T192659_20221229T1930132_C001 S. OFFL_SIR_IOPM_2_20221229T192659_20221229T1930132_C001 S. OFFL_SIR_IOPM_2_20221229T192659_20221229T1930132_C001 S. OFFL_SIR_IOPM_2_20221229T192659_20221229T1930132_C001 S. OFFL_SIR_IOPM_2_20221229T192659_20221229T1930132_C001 S. OFFL_SIR_IOPM_2_20221229T192659_20221229T1940142_C001 S. OFFL_SIR_IOPM_2_20221229T192659_20221229T1940142_C001 S. OFFL_SIR_IOPM_2_20221229T194055_20221229T194048_C001 S. OFFL_SIR_IOPM_2_20221229T194058_20221229T194059_C001 S. OFFL_SIR_IOPM_2_20221229T194116_20221229T194059_C001 S. OFFL_SIR_IOPM_2_20221229T194116_20221229T194059_C001 S. OFFL_SIR_IOPM_2_20221229T194116_20221229T194059_C001 S. OFFL_SIR_IOPM_2_20221229T194116_20221229T194059_C001 S. OFFL_SIR_IOPM_2_20221229T194116_20221229T194059_C001 S. OFFL_SIR_IOPM_2_20221229T194116_20221229T194059_C001 S. OFFL_SIR_IOPM_2_20221229T195405_20221229T19569_C001 S. OFFL_SIR_IOPM_2_20221229T19569_20021229T19569_C001 S. OFFL_SIR_IOPM_2_20221229T19569_2002021229T19569_C001 S. OFFL_SIR_IOPM_2_20221229T19569_2002021229T19569_C001 S. OFFL_SIR_IOPM_2_20221229T19569_2002021229T109569_C001 S. OFFL_SIR_IOPM_2_20221229T19569_2002021229T109569_C001 S	CS_OFFL_SIR_IOPM_2_20221229T181159_20221229T181717_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for nor nor necords CS_OFFL_SIR_IOPM_2_20221229T191343_20221229T191352_C001 CS_OFFL_SIR_IOPM_2_20221229T19228_20221229T19352_C001 CS_OFFL_SIR_IOPM_2_20221229T19228_20221229T192654_C001 CS_OFFL_SIR_IOPM_2_20221229T19228_20221229T192654_C001 CS_OFFL_SIR_IOPM_2_20221229T192659_20221229T192654_C001 CS_OFFL_SIR_IOPM_2_20221229T192659_20221229T192650_C001 CS_OFFL_SIR_IOPM_2_20221229T192659_20221229T192650_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193132_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193132_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193136_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193136_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193144_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T194144_C001 CS_OFFL_SIR_IOPM_2_20221229T194156_20221229T194146_C001 CS_OFFL_SIR_IOPM_2_20221229T194156_20221229T194146_C001 CS_OFFL_SIR_IOPM_2_20221229T194156_20221229T194146_C001 CS_OFFL_SIR_IOPM_2_20221229T194156_20221229T194146_C001 CS_OFFL_SIR_IOPM_2_20221229T194156_20221229T19416_C001 CS_OFFL_SIR_IOPM_2_20221229T195155_20221229T19569_C001 CS_OFFL_SIR_IOPM_2_20221229T195155_20221229T19569_C001 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195690_C001 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195690_C001 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195690_C001 CS_OFFL_SIR_IOPM_2_20221229T20500_02221229T205644_C001 CS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPM_2_20221229T182816_20221229T184053_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221229T19228_20221229T19854_C001 Backscatter Quality Cool Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193132_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193200_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193200_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193200_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T1931414_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T194114_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T194114_C001 CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T194146_C001 CS_OFFL_SIR_IOPM_2_20221229T194146_20221229T194146_C001 CS_OFFL_SIR_IOPM_2_20221229T194146_20221229T194146_C001 CS_OFFL_SIR_IOPM_2_20221229T195125_20221229T195690_C001 CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_C001 CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_C001 CS_OFFL_SIR_IOPM_2_20221229T200501_20221229T200562_C001 CS_OFFL_SIR_IOPM_2_20221229T2025019_20221229T200562_C001 CS_OFFL_SIR_IOPM_2_20221229T2025019_20221229T200562_C001 CS_OFFL_SIR_IOPM_2_20221229T200501_20221229T200562_C001 CS_OFFL_SIR_IOPM_2_20221229T200501_20221229T200562_C001 CS_OFFL_SIR_IOPM_2_20221229T200501_20221229T200562_C001 CS_OFFL_SIR_IOPM_2_20221229T200501_20221229T200562_C001 CS_OFFL_SIR_IOPM_2_20221229T200501_20221229T200562_C001 CS_OFFL_SIR_IOPM_2_20221229T200501_20221229T200562_C001 CS_OFFL_SIR_IOPM_2_20	CS_OFFL_SIR_IOPM_2_20221229T184306_20221229T190016_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Stage, and the OCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records CS_OFFL_SIR_JOPM_2_202212297202330_202212297203157_C001 COCOG Altimeter Range, SSHA, SWH and Backscatter	CS_OFFL_SIR_IOPM_2_20221229T191343_20221229T191352_C001		
and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records GS_OFFL_SIR_JOPM_2_20221229T193135_20221229T193200_CO01 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records GS_OFFL_SIR_JOPM_2_20221229T193135_20221229T194114_CO01 CS_OFFL_SIR_JOPM_2_20221229T193435_20221229T194114_CO01 CS_OFFL_SIR_JOPM_2_20221229T194146_20221229T194488_CO01 CS_OFFL_SIR_JOPM_2_20221229T194116_20221229T194848_CO01 CS_OFFL_SIR_JOPM_2_20221229T195125_20221229T195629_CO01 CS_OFFL_SIR_JOPM_2_20221229T195125_20221229T195629_CO01 CS_OFFL_SIR_JOPM_2_20221229T195653_20221229T195809_CO01 CS_OFFL_SIR_JOPM_2_20221229T200500_20221229T200557_CO01 CS_OFFL_SIR_JOPM_2_20221229T200500_20221229T200544_CO01 CS_OFFL_SIR_JOPM_2_20221229T202330_20221229T202644_CO01 CS_OFFL_SIR_JOPM_2_20221229T202300_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T202300_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T202300_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T202300_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T202300_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T202300_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T202300_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T202301_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T202301_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T202301_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_202221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_202221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_202221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_20221229T205622_CO01 CS_OFFL_SIR_JOPM_2_20221229T20511_20221229T205622_CO01 COOGA Altimeter Range Quality, OCOG Backscatter Quality COOGA Altimeter Range and Backscatt	CS_OFFL_SIR_IOPM_2_20221229T192228_20221229T192654_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221229T193435_20221229T194114_C001 CS_OFFL_SIR_IOPM_2_20221229T194116_20221229T194848_C001 CS_OFFL_SIR_IOPM_2_20221229T194116_20221229T194848_C001 CS_OFFL_SIR_IOPM_2_20221229T195125_20221229T195629_C001 CS_OFFL_SIR_IOPM_2_20221229T195125_20221229T195629_C001 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195609_C001 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195809_C001 CS_OFFL_SIR_IOPM_2_20221229T20557_C001 CS_OFFL_SIR_IOPM_2_20221229T20557_C001 CS_OFFL_SIR_IOPM_2_20221229T202050_20221229T200557_C001 CS_OFFL_SIR_IOPM_2_20221229T202050_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T20230_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T20230_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T20230_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T2057119_20221229T205622_C001 CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221229T2113132_20221229T	CS_OFFL_SIR_IOPM_2_20221229T192659_20221229T193132_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221229T194116_20221229T194848_C001 CS_OFFL_SIR_IOPM_2_20221229T194116_20221229T194848_C001 CS_OFFL_SIR_IOPM_2_20221229T195125_20221229T195629_C001 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195699_C001 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195699_C001 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195699_C001 CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T20557_C001 CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_C001 CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_C001 CS_OFFL_SIR_IOPM_2_20221229T202300_20221229T202844_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CCG_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CCG_OFFL_SIR_IOPM_	CS_OFFL_SIR_IOPM_2_20221229T193135_20221229T193200_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221229T195125_20221229T195629_CO11 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195809_CO11 CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195809_CO11 CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_CO11 CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_CO11 CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_CO11 CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_CO11 CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_CO11 CS_OFFL_SIR_IOPM_2_20221229T202300_20221229T203157_CO11 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_CO11 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_CO11 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_CO11 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T21753_CO11 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T21753_CO11 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T21753_CO11 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T21753_CO11 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_CO11 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T21753_CO11 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T21753_CO11 CS_OFFL_SIR_IOPM_2_20221229T205602_CO11 CS_OFFL_SIR_IOPM_2_2022122	CS_OFFL_SIR_IOPM_2_20221229T193435_20221229T194114_C001		
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195809_C001 Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_C001 CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T205622_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T205622_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T215753_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T215753_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T215753_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T215753_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T215753_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T215753_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T215753_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T215753_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_2022	CS_OFFL_SIR_IOPM_2_20221229T194116_20221229T194848_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_C001 CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T21753_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_OFFL_SIR_IOPM_2	CS_OFFL_SIR_IOPM_2_20221229T195125_20221229T195629_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T21353_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T205622_C001 CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T21353_C001 CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T21353_C001 CCG_Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221229T211132_20221229T213547_C001 CCG_Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20221229T195653_20221229T195809_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T21132_20221229T21753_C001 CS_OFFL_SIR_IOPM_2_20221229T21132_20221229T21753_C001 CS_OFFL_SIR_IOPM_2_20221229T21132_20221229T21753_C001 CS_OFFL_SIR_IOPM_2_20221229T21132_20221229T21753_C001 CS_OFFL_SIR_IOPM_2_20221229T21132_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T213122_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T213132_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T213132_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T213132_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T213132_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T213132_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T213132_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T213132_20221229T213547_C001 CS_OFFL_SIR_IOPM_2_20221229T213132_20221229T213	CS_OFFL_SIR_IOPM_2_20221229T200500_20221229T200557_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T21753_C001 CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T21753_C001 Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T212753_C001 CS_OFFL_SIR_IOPM_2_20221229T21132_20221229T212753_C001 CS_OFFL_SIR_IOPM_2_20221229T213122_20221229T213547_C001	CS_OFFL_SIR_IOPM_2_20221229T202330_20221229T202644_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range Quality, OCOG	CS_OFFL_SIR_IOPM_2_20221229T202807_20221229T203157_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T212753_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range and Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPM_2_20221229T205119_20221229T205622_C001		
	CS_OFFL_SIR_IOPM_2_20221229T211132_20221229T212753_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20221229T213122_20221229T213547_C001		

CS_OFFL_SIR_IOPM_2_20221229T213553_20221229T213602_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T213608_20221229T213746_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T214220_20221229T220622_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T224212_20221229T230725_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T230941_20221229T231502_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T231508_20221229T231833_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T232209_20221229T234906_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20221229T235032_20221229T235347_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T100607_20221229T100828_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T181938_20221229T182127_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T010115_20221229T010245_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T055920_20221229T055959_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T104707_20221229T104805_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T113255_20221229T113534_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T131206_20221229T131536_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T193216_20221229T193218_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T193221_20221229T193225_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.
- > OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20221229T000903_20221229T001036_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T004853_20221229T005006_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T011920_20221229T012115_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T014803_20221229T014918_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T022729_20221229T022759_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T031824_20221229T031948_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPN_2_20221229T050401_20221229T050927_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T054850_20221229T054923_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T055453_20221229T055920_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T064813_20221229T064953_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T081019_20221229T081215_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T081555_20221229T081924_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T085359_20221229T085754_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T091314_20221229T091805_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T092114_20221229T092237_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T095601_20221229T095751_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T100607_20221229T100828_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T103412_20221229T103755_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T104241_20221229T104258_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T105315_20221229T105740_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T105819_20221229T105942_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T110252_20221229T110536_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T113535_20221229T113714_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T114428_20221229T114715_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T132449_20221229T132604_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T134149_20221229T134306_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T141421_20221229T141557_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T152513_20221229T152827_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T154544_20221229T154655_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T164234_20221229T164342_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T181019_20221229T181158_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221229T190241_20221229T190525_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPN_2_20221229T191843_20221229T204413_C001 CS_OFFL_SIR_IOPN_2_20221229T203948_20221229T204409_C001 CS_OFFL_SIR_IOPN_2_20221229T203948_20221229T204409_C001 CS_OFFL_SIR_IOPN_2_20221229T203948_20221229T204409_C001 CS_OFFL_SIR_IOPN_2_20221229T21844_20221229T22232_C001 CS_OFFL_SIR_IOPN_2_20221229T221844_20221229T22232_C001 CS_OFFL_SIR_IOPN_2_20221229T231833_20221229T231950_C001 CS_OFFL_SIR_IOPN_2_20221229T231833_20221229T235925_C001 CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 CS_OFFL_SIR_IOPN_2_20221229T2004833_20221229T004853_C001 CS_OFFL_SIR_IOPR_2_20221229T004833_20221229T004853_C001 CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. CCOG Altimeter Range Altimeter R	ality Flags have been ality Flags have been ality Flags have been
CS_OFFL_SIR_IOPN_2_20221229T203948_20221229T204409_C001 CS_OFFL_SIR_IOPN_2_20221229T203948_20221229T204409_C001 CS_OFFL_SIR_IOPN_2_20221229T203948_20221229T204409_C001 CS_OFFL_SIR_IOPN_2_20221229T221844_20221229T22232_C001 CS_OFFL_SIR_IOPN_2_20221229T221844_20221229T22232_C001 CS_OFFL_SIR_IOPN_2_20221229T231833_20221229T231950_C001 CS_OFFL_SIR_IOPN_2_20221229T231833_20221229T231950_C001 CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T204853_C001 CS_OFFL_SIR_IOPN_2_20221229T204833_20221229T204853_C001 CS_OFFL_SIR_IOPN_2_20221229T204833_20221229T204853_C001 CS_OFFL_SIR_IOPN_2_20221229T204833_20221229T204853_C001 CS_OFFL_SIR_IOPN_2_20221229T204409_C001 Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range Altimeter Ran	ality Flags have been ality Flags have been ality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags set for one or more records CS_OFFL_SIR_IOPN_2_20221229T221844_20221229T22232_C001 CS_OFFL_SIR_IOPN_2_20221229T221844_20221229T22232_C001 CS_OFFL_SIR_IOPN_2_20221229T221833_20221229T2231950_C001 CS_OFFL_SIR_IOPN_2_20221229T231833_20221229T231950_C001 CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001	ality Flags have been ality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags set for one or more records CS_OFFL_SIR_IOPN_2_20221229T231833_20221229T231950_C001 CS_OFFL_SIR_IOPN_2_20221229T231833_20221229T231950_C001 CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, S	have been ality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags set for one or more records CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 CS_OFFL_SIR_IOPN_2_20221229T204833_20221229T04853_C001 And Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags set for one or more records	have been
CS_OFFL_SIR_IOPN_2_20221229T235347_20221229T235925_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, and Backscatter Quality Flags and the OCGG Altimeter Range and Backscatter Quality Flags set for one or more records CS_OFFL_SIR_IOPR_2_20221229T004833_20221229T004853_C001 The OCGG Altimeter Range, SSRA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range and Backscatter Quality Flags have been set.	
COOG Decisionally Information	et for one or
CS_OFFL_SIR_IOPR_2_20221229T005006_20221229T005744_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags set for one or more records	
CS_OFFL_SIR_IOPR_2_20221229T010115_20221229T010245_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been so more records	et for one or
CS_OFFL_SIR_IOPR_2_20221229T014919_20221229T015243_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records	
CS_OFFL_SIR_IOPR_2_20221229T022800_20221229T023548_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, oCOG Altimeter Range and Backscatter Quality Flags set for one or more records	
CS_OFFL_SIR_IOPR_2_20221229T024110_20221229T024450_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been so more records	et for one or
CS_OFFL_SIR_IOPR_2_20221229T040740_20221229T040745_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been so more records	et for one or
CS_OFFL_SIR_IOPR_2_20221229T040747_20221229T041448_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM	
CS_OFFL_SIR_IOPR_2_20221229T045227_20221229T045909_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags set for one or more records	
CS_OFFL_SIR_IOPR_2_20221229T054140_20221229T054510_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been so more records	et for one or
CS_OFFL_SIR_IOPR_2_20221229T054923_20221229T055341_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records	
CS_OFFL_SIR_IOPR_2_20221229T063258_20221229T063836_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags set for one or more records	
CS_OFFL_SIR_IOPR_2_20221229T070531_20221229T070732_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records	
CS_OFFL_SIR_IOPR_2_20221229T072721_20221229T073202_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records	
CS_OFFL_SIR_IOPR_2_20221229T073202_20221229T073354_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM The Ocean Altimeter Range and Backscatter Quality PLRM or one or more records	
CS_OFFL_SIR_IOPR_2_20221229T074128_20221229T074245_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been semore records	et for one or
CS_OFFL_SIR_IOPR_2_20221229T084802_20221229T085252_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been seem of the ocog backscatter Quality Flags have been seem of the ocog B	et for one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range and Backscatter Quality Flags set for one or more records	
Ocean Altimeter Range, SSHA, SWH	ality Flags

CS_OFFL_SIR_IOPR_2_20221229T104707_20221229T104805_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T104839_20221229T105315_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T113255_20221229T113534_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T122558_20221229T123520_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T131206_20221229T131536_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T135914_20221229T140249_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T140633_20221229T141421_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T145153_20221229T145458_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T153536_20221229T153837_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T153837_20221229T154544_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T154655_20221229T155427_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T164342_20221229T164717_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T172056_20221229T172120_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T172610_20221229T173333_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T173557_20221229T173640_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T180551_20221229T180621_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T182127_20221229T182816_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T184132_20221229T184306_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T190016_20221229T190241_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T190526_20221229T191240_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T193230_20221229T193435_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T203917_20221229T203947_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T204409_20221229T205013_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T210530_20221229T210824_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T210824_20221229T211132_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221229T222232_20221229T223114_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below

> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

198

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.

> Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

65

L2 Retracking Flags (20 Hz PLRM)

CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

> Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

158

6. IOP L2 Pole-to-Pole Data Quality Check

6.1 P2P Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).

Number of products with errors:

0

6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

0

6.3 P2P Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

٥

6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this check.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20221229T000539_20221229T005515_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T005515_20221229T014454_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T014454_20221229T023430_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T023430_20221229T032408_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T032408_20221229T041345_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20221229T041345_20221229T050323_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T050323_20221229T055259_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T055259_20221229T064237_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T064237_20221229T073214_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T073214_20221229T082152_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20221229T082152_20221229T091129_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_220221229T091129_20221229T100107_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T100107_20221229T105043_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T105043_20221229T114022_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T114022_20221229T122958_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T122958_20221229T131936_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T131936_20221229T140913_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T140913_20221229T145851_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T145851_20221229T154827_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T154827_20221229T163806_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T163806_20221229T172742_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T172742_20221229T181720_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T181720_20221229T190657_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T190657_20221229T195635_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T195635_20221229T204611_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T204611_20221229T213550_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T213550_20221229T222526_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20221229T222526_20221229T231505_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220221229T231505_20221230T000441_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20221229T005515_20221229T014454_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220221229T055259_20221229T064237_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. The number of P2P products affected is given below.

Number of products with errors: 30

P2P Quality Flags (20 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. The number of P2P products affected is given below.

Number of products with errors: 2

P2P Quality Flags (1 Hz & 1 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given below.

Number of products with errors: 29

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.

> Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors:

25

P2P Retracking Flags PLRM

CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

> Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

7. IOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	210	210	6	204	0
SIR_IOPR1B	135	102	2	100	0
SIR_IOPN1B	102	135	1	134	0
SIR_IOPM_2	210	210	151	59	0
SIR_IOPR_2	134	102	37	65	0
SIR_IOPN_2	102	134	45	86	3
SIR_IOP_P2P	29	29	0	26	3

7.1 QCC Errors

Number of QCC reports with errors:

RL

RL

RangeLongitudeOrBlankOP_7NetCDF

RangeLatitude_7

RangeLongitude_7

Product Type RLOBOPNCDF SIR_IOPR_2 3

Product Type RLOBOPNCDF

12

RL 3

RL

Latitude should be between -90E7 and 90E7

Longitude should be between -180E7 and 180E7

Longitude should be between -180E7 and 180E7

RLOBOPNCDF

RLOBOPNCDF

Total number of occurrences of each error										
	-		-		-					

SIR_IOP_2_	3	3	3	3	3							
Test Description Key:												
Abbreviation	Test name			Details								
DI OBODNICDE	Pangal atituda	rPlankOP 7No	+CDE	Latituda	should be between	00E7 and 00E7						

7.2 QCC Warnings

RL

RL

RLOBOPNCDF

Number of QCC reports with warnings

2265

Total number of occurrences of each warning

	Total name of obtaining							
	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
Ī	SIR_IOPM1B	204	0	0	0	0	0	0
	SIR_IOPM_2	0	0	34	36	0	47	0
	SIR_IOPN1B	98	0	0	0	0	0	0
	SIR_IOPN_2	0	0	11	38	2	28	33
	SIR_IOPR1B	131	0	0	0	0	0	0
	SIR_IOPR_2	0	3	38	49	1	26	23

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	41	1	30	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	20	2	0	0	21	0	38
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	12	9	0	53	0	59	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	23	0	0	4	24	0	2
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	31	17	41	54	28
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	50	0	2	66	32	20

-				201110221022	00110710011011007			
	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
	SIR_IOPM1B	0	0	0	1	1	0	0
	SIR_IOPM_2	28	0	1	1	1	0	0
	SIR_IOPN1B	0	0	0	0	0	0	49
	SIR_IOPN_2	30	27	10	0	0	0	0
	SIR_IOPR1B	0	0	0	0	0	0	134
	SIR IOPR 2	40	50	2	0	0	6	0

Ī	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
	SIR IOP 2	19	28	29	2	29	16	29

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	8	16	29	22	17	29	18

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	•
SIR_IOP_2_	24	29	18	11	29		

•	•					
Test Description Key:						

rest bescription key.				
Abbreviation	Test name	Details		
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter		
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)		
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only		
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RBSZOPOEPFDPLRM NCDF		The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		

RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
	•	•

7.3 Missing QCC Reports

Number of products with missing QCC reports:

L1B and L2 Product name

P2P Product name
CS_OFFL_SIR_IOP_2_20221229T231505_20221230T000441_C002